	Application No.	Applicant(s)
Notice of Allowability	10/749,847	MARTINEZ ET AL.
	Examiner	Art Unit
	Ana M. Fortuna	1723
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>7/13/06</u> .		
2. The allowed claim(s) is/are <u>1-5</u> .		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	• •
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	 6. ☑ Interview Summary Paper No./Mail Dat 	e <u>9/21/06</u> .
 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 	7. 🛛 Examiner's Amendn	nent/Comment
	8. 🛭 Examiner's Stateme	nt of Reasons for Allowance
· ·	9. Other	

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Edgar W. Averill, Jr. on 9/21/06.

The application has been amended as follows:

In claim 1, line 15, before the word "bulk", insert - -all- -.

In claim 2, line 2, after "fabricated", insert - -from materials from- -; and in line 3, delete "from".

REASONS FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance: The mass transfer device of claim 1, with the wound fibers around the core with the ends potted to provide a bore fluid inlet and a bore fluid outlet, in combination with the baffle in the central core, which does not allow passage of fluid introduced to the central perforated core at the baffle location and diverts fluid out of the core, around the fibers and back to the core at an opposite side of the plug, in combination with the housing, and end manifolds are not disclosed or suggested in the prior art of record. Applicant admits in the preamble that tubular semi-permeable membranes bundles wrapped around a perforated cord are known in the art. The prior art of record shows hollow fiber membrane bundles including the inlets and outlets for the bore and bulk fluids, the

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bundles includes a central perforated pipe including a baffles or plug at the inner center of the core pipe, see US patents 5,352,361, 6,790,262, the later references fail to suggests providing the tubular membranes (hollow fiber bundles) with the fibers would around the core with the membrane layers at the angle as claimed in the present invention. The skilled in the art will not have reasonable expectation of success when a mass transfer device is provided with a wound cartridge having the claimed configuration, other than providing a larger membrane surface area. The effect in bore fluid permeation and providing enough contact between the outer surface of the membrane and the bulk fluid cannot be predicted from the prior art of record's teachings. Rejection over US 4,824,566 has been withdrawn, because although the module can be alternatively operated in a bore side feed arrangement, substantial structural modification will be required. Claim 1 is amended to distinguish the core baffle or plug, from the plug in the present invention.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ana M. Fortuna whose telephone number is (571) 272-1141. The examiner can normally be reached on 9:30-6:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda L. Walker can be reached on (571) 272-1151. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ana M Fortuna Primary Examiner Art Unit 1723

AF September 21, 2006